

What is claimed is:

1. A test connector for burn-in testing of an integrated circuit (IC) package, the test connector comprising:

a connector body with a plurality of terminals therein, the connector body comprising an inner housing and an outer housing, the inner housing being mounted on the outer housing and receiving the IC package;

a lid positioned over the connector body and restrictively movable up-and-down relative to the outer housing;

a plurality of guiding mechanisms disposed between the lid and the connector body; and

a plurality of pressing mechanisms engaged between the lid and the connector body for holding or releasing the IC package, each of the pressing mechanisms comprising a leaf spring;

wherein when the lid is in an upper position, the pressing mechanisms are in a first position in which the leaf springs are disengaged from the IC package, while when the lid is in a lower position, the pressing mechanisms are moved to a second position in which the leaf springs are engaged with the IC package, thereby mechanically and electrically connecting the IC package to the terminals.

2. The test connector as described in claim 1, wherein each of the pressing mechanisms comprises a first shaft attached to the lid, a second shaft mounted to the outer housing, and a pair of operating levers engaged between the first shaft and the second shaft.

3. The test connector as described in claim 2, wherein the leaf spring comprises a pair of ear portions and a main body, each ear portions defining a through hole.

4. The test connector as described in claim 3, wherein the leaf spring is mounted to the first shaft through the holes of the ear portions and positioned between the operating levers.

5. The test connector as described in claim 4, wherein each of the operating levers comprises a pivot hole in an end thereof for pivotally attached the operating lever to the second shaft, and a mounting hole in an opposite end thereof for mounting the operating lever to the first shaft.

6. The test connector as described in claim 1, wherein each of the guiding mechanisms comprises a guiding post for preventing lateral movement of the lid relative to the outer housing, and a coil spring to provide a biasing force between the lid and the outer housing, the coil spring disposed around the guiding post.

7. The test connector as described in claim 6, wherein a plurality of blind holes is defined in corners of the outer housing respectively, and a plurality of guiding holes corresponding to the blind holes is defined in the lid, the blind holes and the guiding holes receiving the guiding mechanisms.

8. The test connector as described in claim 7, wherein the outer housing comprises a pair of opposite first end portions and a pair of opposite first side portions.

9. The test connector as described in claim 8, wherein each of the first end portions comprises a pair of spaced, aligned projections each defining a receiving hole for receiving the second shaft of the pressing mechanism.

10. The test connector as described in claim 9, wherein each of the first side portions defines a first cutout in a center thereof.

11. The test connector as described in claim 10, wherein the lid comprises a pair of opposite second end portions corresponding to the first end portions of the outer housing, and a pair of opposite second side portions corresponding to the first side portions of the outer housing.

12. The test connector as described in claim 11, wherein each of the second end portions comprises an extending portion extending inwardly from an inner side thereof, the extending portion abutting against the pressing mechanism.

13. The test connector as described in claim 11, wherein each of the

second side portions defines a second cutout in a center thereof, and a pair of aligned receiving grooves in each of opposite ends thereof for receiving the first shafts of the pressing mechanism.

14. The test connector as described in claim 13, wherein each of opposite end walls of the second cutout defines a mounting hole, and a pivot axle is mounted in the mounting holes.

15. The test connector as described in claim 14, wherein a pair of latches is pivotally mounted to the pivot axles of the lid at the second cutout.

16. The test connector as described in claim 15, wherein when the lid is in the lower position, the latches are locked to the connector body, while when the lid is in the upper position, the latches are unlocked from the connector body.

17. A test connector assembly comprising:  
a connector body with a plurality of terminals therein,  
an electronic package installed unto the connector body;  
a lid positioned over the connector body and restrictively movable up-and-down relative to the connector body;  
a plurality of guiding mechanisms disposed between the lid and the connector body to allow said lid to move relative to the connector body vertically; and

a plurality of pressing mechanisms engaged between the lid and the connector body for holding or releasing the electronic package; wherein

when the lid is in an upper position, the pressing mechanisms are in an upper/outer position disengaged from the electronic package, while when the lid is in a lower position, the pressing mechanisms are moved to a lower/inner position in which the pressing mechanisms are engaged with the electronic package, thereby mechanically and electrically connecting the electronic package to the terminals.

18. The assembly as described in claim 17, wherein said pressing mechanism includes an operating lever with a lower end pivotally mounted

to the connector body and an upper end having a leaf spring pivotally mounted thereto, said leaf spring engaging said electronic package.